BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads and Drains in BB nagara cross road and Kodigehalli cross raod in lieu of Improvements to roads and drains in (Poovaih Residence) and Providing CC Road at (Shivananda and Muniraju Residence) Marutinagara Kotihosahalli in Ward no 08, Kodigehalli Sub Division.**

			Estimate Cost:					**1000000.00**	
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. Page No. 138 / Item No. 19.1/ PWD SR 2014-15	Cum							
	Drain Desilting		2	50.00	0.45	0.35	15.75		
	CC Road - BB nagara cross road		1	155.00	3.06	0.15	71.25		
	culvert		1	6.00	2.00	1.20	14.40		
							101.40	75.60	**7666.00**
	Basic Rate	70.00							
	Area Weightage @8%	5.60							
	Total	**75.60**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with** 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2014-15**	Cum							
	CC Road - BB nagara cross road		1	155.00	3.06	0.15	71.25		
	Culvert		2	6.00	2.00	0.15	3.60		
							74.85	4847.04	**362801.00**
	Basic Rate	4488.00							
	Area Weightage @8%	359.04							
	Total	**4847.04**							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	KSRR 4-1.5 : Providing and laying in position plain cement concrete of **mix M20 with OPC cement @ 300 kgs, with 20mm** and down size graded granite metal coarse aggregates @ 0.64 cum and fine aggregares @ 0.43 cum with superplastisiser @ 3lts confirming to IS9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2, **No. 12/ Item**	Cum							
	CC Road - BB nagara cross road		1	155.00	3.06	0.10	47.50		
							47.50	5852.52	**277995.00**
	Basic Rate	5419.00							
	Area Weightage @8%	433.52							
	Total	**5852.52**							
4	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. 171 / **Item No. 22.7 / PWD SR 2014-15**	Sqm							
	CC Road		1	155.00	3.06		475.00		
							475.00	97.20	**46170.00**
	Basic Rate	90.00							
	Area Weightage @8%	7.20							
	Total	**97.20**							
5	Providing groove cutting for **cement pavement** wifth of 5mm to 10mm and depth 800mm-100mm including cost of cutting machine, generator and HOM of machinery, including cost of blade, coolant etc, including cleaning of groove and providing sand and hot bitumen fillarsm and filler metal etc including of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications **Page No.** 172 / **Item No.** 22.8 /	Rmt		av					
			16	3.08			49.25		
							49.25	124.20	**6117.00**
	Basic Rate	115.00							
	Area Weightage @8%	9.20							
	Total	**124.20**							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	KSRB 5.4-3: Providing and constructing granite / trap / basalt size stone masonry in **superstructure with cement mortar** 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23 / **Item No. 5.12 / PWD SR 2014-15**	Cum							
			1x2	6.00	0.60	0.90	6.48		
							6.48	4773.60	**30933.00**
	Basic Rate	4420.00							
	Area Weightage @ 8%	353.60							
	Total	**4773.60**							
7	KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. **109 / Item No. 15.4 / PWD SR 2014-15**	Sqm							
			1x2	6.00		0.80	9.60		
							9.60	92.88	**892.00**
	Basic Rate	86.00							
	Area Weightage @ 8%	6.88							
	Total	**92.88**							
8	KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with **cement @ 240 kgs** with 5 mm and down size graded granite metal as coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, RCC well compacted, in foundation, plinth and DPC, including cost of all materials, labour cost of machinery, curing complete as per specifications, specification. No. KBS 5-1.13 Page No. 12/ Item **No. 4.6/ PWD SR 2014-15**	Cum							
	Pointing		1	6.00	1.80	0.10	1.08		
	Plinth		1x2	6.00	0.90	0.15	1.62		
							2.70	5327.64	**14385.00**
	Basic Rate	4933.00							
	Area Weightage @ 8%	394.64							
	Total	5327.64							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	KSRB 4.2.2 : Providing and laying in position **reinforced cement** concrete of design mix **M20 with OPC cement** @ 320 kgs, with **20mm and down size** graded granite **metal**, coarse aggregate @ 0.878 cum and fine aggregates @ 0.59 cum with superplastisiser @ 3lts conforming to IS 9103-1999 reaffirmed-2007 machine mixed, concrete laid in layers not exceeding 150mms thick, vibrated for all works in foundation plinth and ground floor, for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including raised plasters, column, piers, abutments, pillars, pilasters, struts, buttresses, string courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets, including cost of all materials, labour, use of machinery, curing, complete as per specifications. Specification No. KSR Page No. 13/ Item **No. 4.11/** PWD SR								
		Cum							
			1	6.00	1.80	0.23	2.48		
							2.48	6065.28	**15066.00**
		5616.00							
		449.28							
		6065.28							
10	KSRB 4.9.1: Providing and laying **reinforcement** for RCC work including straightening, cutting, bending, hooking, placing in position, binding or welding wherever required, binding the joints and anchoring to the nearest reinforcement wherever necessary as per drawings (laps, hooks and bends not measured and paid), including all materials, labour, use of machinery as per HOM of machinery, specifications.Specification No. KSR Page No. 17 / Item **15**								
		Qtl							
	For Roof		0.90	2.48			**2.24**	7975.80	**17831.00**
		7385.00							
		590.80							
		7975.80							
11	KSRB 4-6.4 : Providing and fixing centering, shuttering, propping and removal of formwork for **surface such as** walls, columns, piers, abutments, pillars, buttresses, including attached plinth and string courses, parapets, coping, labour complete as per Specification NO KSR Page No. **Item No.** 4.31/ PWD								
		Sqm							
			1	6.00	0.60		3.60		
			1x2	6.00		0.23	2.76		

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
			1x2	1.80		0.23	0.83		
							7.19	292.68	**2104.00**
	Basic Rate	271.00							
	Area Weightage @ 8%	21.68							
	Total	**292.68**							
12	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2014-15**	Sqm							
	hanumaiah badavane cross road		2	50.00		1.35	135.00		
							135.00	58.32	**7873.00**
	Basic Rate	54.00							
	Area Weightage @ 8%	4.32							
	Total	**58.32**							
13	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2014-15**	Sqm							
	hanumaiah badavane cross road		Qty Vide Item No. 12				**135.00**	75.60	**10206.00**
	Basic Rate	70.00							
	Area Weightage @ 8%	5.60							
	Total	**75.60**							
14	KSRRB 500-3: Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100m, sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH chapter 5, **No. 157 / Item No. 21.3 / PWD SR 2014-15**	Sqm							
	hanumaiah badavane cross road		1	50.00	4.80		240.00		
							240.00	82.94	**19907.00**
	Basic Rate	76.80							
	Area Weightage @ 8%	6.14							
	Total	**82.94**							
15	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications **Page No. 154 / Item No. 20.18 PWD SR - 2014-15.**	Cum			av.				
	hanumaiah badavane cross road		1	50.00	5.00	0.20	50.00		
							50.00	1438.56	**71928.00**
	Basic Rate	1332.00							
	Area Weightage @ 8%	106.56							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Total	**1438.56**							
16	KSRRB 500-1.1 : **Cleaning the existing WBM** road surface including removing of binding materials and other foreign matter with wire bushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries, curing complete as per specifications. Specification No. 500-1.3 **P. 157 / I. 21.1** PWD SR 2014-15	Sqm							
	hanumaiah badavane cross road		1	50.00	5.00		250.00		
							250.00	12.20	**3051.00**
	Basic Rate	11.30							
	Area Weightage @ 8%	0.90							
	Total	**12.20**							
17	KSRRB M500-6: Providing and applying **primer coat for surfaces of medium porosity** like cement stabilized soil base @ 1.10 Kg/Sqmt over prepared surface with S.S bitumen emulsion using bitumen tanker fitted with spray set (excluding cleaning of road surface) including cost of all material, labour HOM of machineries complete as per specifications. MORTH specification NO. 502, **Page No. 157 / Item No. 21.5 / PWD SR 2014-15**	Sqm							
			Qty Vide Item No. 04				**250.00**	74.52	**18630.00**
	Basic Rate	69.00							
	Area Weightage @ 8%	5.52							
	Total	**74.52**							
18	KSRRB M500-18: Providing and laying **semi dense bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specifications clause No. 507 complete in all respects as per specifications using 100-**120 TPH capacity** H.M. with sensor paver **grading II** (25-30mm) with 5% CRMB-55 **grade, No. 100 / Item No. 500.18 / PWD SR 2014-15**	Cum							
	hanumaiah badavane cross road		1	50.00	5.00	0.025	6.25		
							6.25	11070.00	**69188.00**
	Basic Rate	10250.00							
	Area Weightage @ 8%	820.00							
	Total	**11070.00**							

	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Lead for Disposal of ... all be payable at carriage rates by ... nical means inlcuding loading and unloa...g. From 0.00 to 2.00 Km (Page No.1...	Cum							
			Vide Item No. 1				**96.33**	73.57	**7087.00**
	Average weight of earth ... tonne / kg for 2x1.28x2.00=5.12	5.12							
	Add loading and unloa... ges Vide item no.17.1 P.no.130	63.00							
		68.12							
	... ghtage @ 8%	5.45							
	Total	73.57							
20	Sub Total								**989830.00**
21	For Third Part QC Insp... arges @ 1% of Estimate Cost								***9898.00***
22	Miscellaneous and othe... s	L/S							**272.00**
								Total	**1000000.00**
		(Rs. Ten Lakhs Only)							

CERTIFICATE:

1 The work spot has ... ed and the work is found necessary.
2 This estimate is prep... of MD SR of 2014-15.
3 This work included ... Units 2014-15.
4 The provisions wor... estimate are necessary and adequate.
5 This works come u... limits.

Assist...

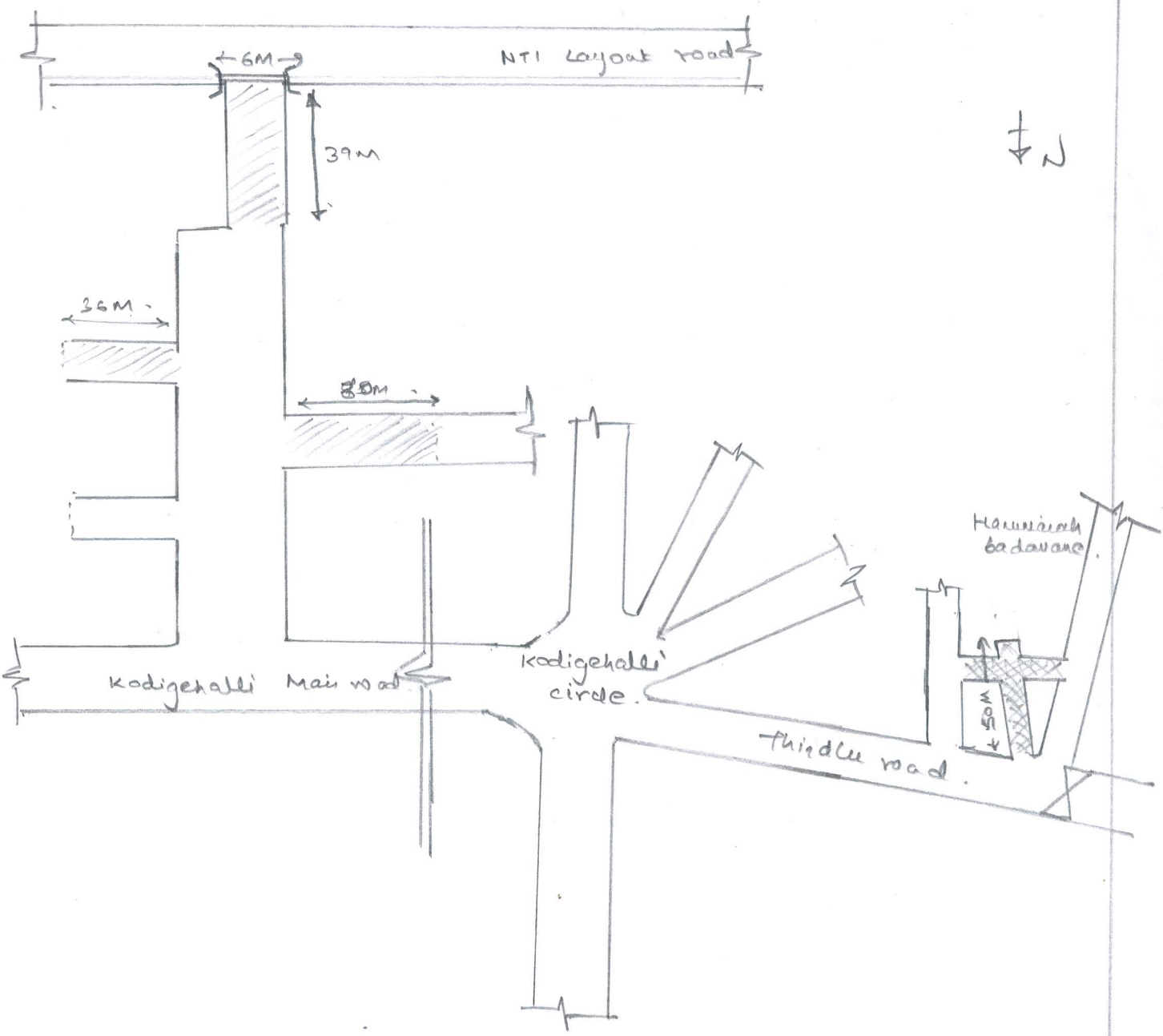
Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Technical Sanction for Rs. 10.00L.
Ten lakhs only
P-1771
Registered ... Page ...
to cond...
No: 02 Dt. 30/04/15
AEE 30/04.
EE (BTP.Div.)

Name of work: Improvements to roads & drains in B.S nagar cross roads Kodigehalli in lieu of Improvements to roads & drains (Poovaiah Residence) & providing CC road at (Shivananda & Muniraju) Meenuthinagara Kothinagar in ward No. 8, Kodigehalli sub division.



Location Sketch.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬೆಂಗಳೂರು-92